

From qrp-1@lehigh.edu Sat May 20 23:10:01 1995  
Message-Id: <199505202309.AA05258@dragonfly.wri.com>  
From: Bruce Pea <pea@wri.com>  
Subject: 1/4 wave delta loop  
Date: Sat, 20 May 1995 19:10:01 EDT

Hello all -

Well, I've spent the whole day walking around my mid-city lot brain-storming ways to put up a decent wire antenna. Since the weather has been beautiful here (east central Illinois) it has been a nice way to spend the day... however I have not come up with any great ideas :-(

The back of my house/lot won't work because our electric, phone, and cable service slice up the sky and it seems like it would be a noisy place to have an antenna anyway. So that leaves the front of my house/lot.

My street is lined with ~75 foot trees. I looked at these suckers for a long long time and thought about how wonderful it would be to hang a dipole with 200' of wire on each side. Then I thought about all the excellent dx I could do with a 40m half-square antenna hung around 60'. I got \*real\* excited and went next door to ask my neighbor if he would mind if I strung some wire in the tree in front of his house. Well, my neighbor is a good guy. I've known him for 10+ years but he looked at me like I was goofy when I asked to use his tree... oh well...

That leads me to my last idea. The peak of the roof of my house on the front is ~55 high. I have a large front porch that wraps around the side of my house and is covered with a roof. What if I cut a piece of wire approx. the size of a 40m dipole (approx. 66 feet - 1/2 wave length) and strung it up as a delta loop. The apex would be at my roof peak and the lower corners would be anchored to the top of my porch roof. I would feed the antenna at one of the lower corners with ladder line.

I'll run the ladder line into my tuner. Will this be a decent 40m antenna??

I just realized the subject line above says 1/4 wave... I meant 1/2 wave.

Thanks for your comments and advice... which I badly need at this point!

73s

Bruce - N9WKE

From qrp-1@lehigh.edu Sun May 21 04:55:04 1995  
Message-Id: <Pine.SUN.3.91.950520225001.29744A-100000@ume>  
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>  
Subject: Re: 1/4 wave delta loop  
Date: Sun, 21 May 1995 00:55:04 EDT

bruce...go ahead and try it. put up another antenna (eg. short dipole) in the back yard.....then compare! That really is the essence of ham radio. I have a 66 foot tower and a monobander for 20, shunt load the tower for 80 and 160. Play with balanced line and wire for the other bands but always try out the wire antennas against the yagi and vertical....often with surprising results. I change my wire antennas every 6 or 12 months. Last year a delta loop for 20 thru 10, this year a 30 m inverted vee. After the "non contest" on 30 this summer will put up a 40 meter delta! Changing bands and personal needs keep me changing and comparing..... Just do it! ;-)

|                                     |   |                                    |
|-------------------------------------|---|------------------------------------|
| Dr. Rick Zabrodski BSc, MD, CCFP(E) | * | VE6GK                              |
| Email: zabrodsk@med.ucalgary.ca     | * | NorCal 519 ARCI 7650 GQRP 8329     |
| Phone 403-271-5123 Fax 403-225-1276 | * | "Power is no substitute for skill" |

From qrp-1@lehigh.edu Sat May 20 17:02:52 1995  
Message-Id: <2fbe0739.pandora@pandora.lugs.po.my>  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>  
Subject: 2-way QRP trans Pacific!  
Date: Sat, 20 May 1995 13:02:52 EDT

Yo Dood!

We did it! Wow, this is unbelievable. Conditions here has been one of the worst I've seen yet and yet I could copy ur QRP signal no problem. First I was using the ICOM IC-725 and had the power turned to the minimum and since you could still read me, and I could read you I decided to go all the way with my ARK-20. That's the one you heard, and believe it or not, we did it! This one surely qualifies for the 100 mi/watt thing. I was running 4 watts, how many watts were you running btw? And what rig? Antenna was a homebrew dipole, keyer was a homebrew Curtiss, key - a Bencher :-). This is great, we should get more

of the list guys to try this distance now that its been done! Thanks for a great QSO, that really made my night. Wow!

72 de 9V1ZV Daniel

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+-----+-----+
| Daniel Wee | daniel@pandora.lugs.po.my |
| 9V1ZV      | daniel.wee@f516.n600.z6.fidonet.org |
| UUCP1.12k  | Packet: 9V1ZV @ 9V1VS.SGP.AS -- |
+-----+-----+
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From owner-qrp-l@netcom.com Sat May 20 17:37:35 1995

Message-Id: <199505201741.KAA05298@mail.netcom.com>

Subject: Re: 2-way QRP trans Pacific!

Date: Sat, 20 May 95 10:37:35 PDT

From: Eric Swartz WA6HHQ <erics@cruzio.com>

W. Daniel, 9V1ZV writes:

>

> Yo Dood!

>

> We did it! Wow, this is unbelievable. Conditions here has been one of  
> the worst I've seen yet and yet I could copy ur QRP signal no problem. First I  
> was using the ICOM IC-725 and had the power turned to the minimum and since you  
> could still read me, and I could read you I decided to go all the way with my  
> ARK-20. That's the one you heard, and believe it or not, we did it! This one  
> surely qualifies for the 100 mi/watt thing. I was running 4 watts, how many  
> watts were you running btw? And what rig? Antenna was a homebrew dipole, keyer  
> was a homebrew Curtiss, key - a Bencher :-). This is great, we should get more  
> of the list guys to try this distance now that its been done! Thanks for a  
> great QSO, that really made my night. Wow!

I was running 1w with my Sierra here. Antenna was a 3 el, 20m yagi at 55' looking over the water towards you, which certainly helped! I live at the top of a small ridgeline, (350ft above sea level), about one mile from the ocean, (Monterey Bay.) The unobstructed drop off towards the water in your direction is fairly even, so the effective height of the antenna is quite a bit higher. The antenna is a Mosley PRO-67b, which also has 2 elements, (soon to be 3), on 40m. I regularly work your part of the world with 4W on my NorCal40. So now we need you to get a resonant dipole up on 40m so we can try it there!

It certainly made my day too! I'll make sure to keep an eye out for you so we can try it again. 73, Eric WA6HHQ erics@cruzio.com

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From qrp-1@lehigh.edu Sat May 20 18:51:05 1995  
Message-Id: <9505201850.AA00353@kahuna.math.hawaii.edu>  
From: jeffrey@math.hawaii.edu (Jeffrey Herman)  
Subject: Re: 2-way QRP trans Pacific!  
Date: Sat, 20 May 1995 14:51:05 EDT

Dan - who did you work? You didn't mention the other station's call.

Jeff NH6IL

From qrp-1@lehigh.edu Sat May 20 21:01:08 1995  
Message-Id: <2fbe435a.pandora@pandora.lugs.po.my>  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>  
Subject: Re: 2-way QRP trans Pacific!  
Date: Sat, 20 May 1995 17:01:08 EDT

On Sat, 20 May 1995 14:51:05 EDT, "Jeffrey Herman" <jeffrey@math.hawaii.edu>  
wrote:

> Dan - who did you work? You didn't mention the other station's call.

>

> Jeff NH6IL

Ooops, silly me.... ----> Eric Schwartz WA6HHQ

73 de 9V1ZV Daniel

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+-----+-----+
| Daniel Wee | daniel@pandora.lugs.po.my |
| 9V1ZV      | daniel.wee@f516.n600.z6.fidonet.org |
| UUCP1.12k  | Packet: 9V1ZV @ 9V1VS.SGP.AS -- |
+-----+-----+
```

From qrp-1@lehigh.edu Sun May 21 03:32:39 1995  
Message-Id: <Pine.SUN.3.91.950520232831.24742F-100000@explorer.csc.com>  
From: Richard Haynes <rhaynes@explorer.csc.com>  
Subject: Artwork Needed  
Date: Sat, 20 May 1995 23:32:39 EDT

I would like to create custom QSL cards ofr special events. Does anyone have at GIF, TIF or whatever file for ARCI or any other ham related graphics they would be willing to share?

73's Richard

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-----  
| Richard Haynes _____ Reply to: rhaynes@explorer.csc.com |  
| the comments and opinions are my own and not those of CSC et al. |  
-----  
| N5QXF____QRP-ARCI____NorCal 601____NorTex QRP |  
-----
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From qrp-1@lehigh.edu Sun May 21 02:06:18 1995  
Message-Id: <950520220457\_125845320@aol.com>  
From: N5EM@aol.com  
Subject: Designing Our Own  
Date: Sat, 20 May 1995 22:06:18 EDT

I have watched the discussion in this thread for a few days now. I have a couple of thoughts.

There are a large number of kit rigs out there today. They cover a wide range of bands, mostly CW, a couple SSB. They vary from the early W7EL, direct conversion rigs, to newer NE602 based superhets.

I would like to see emphasis on techniques that have NOT already been done. It's tempting to tweak a design and kit it, but does it really break any new ground? As has been observed, doing a project like this places a large requirement in time on the core group. I would like to see their efforts move the state of the art in our gear ahead.

While I have no specific agenda to put forth, I am disturbed to see any particular idea slammed. The idea of DSP and computer control have merit. I would certainly not blame anyone who might have innovative ideas to hold back for fear of drawing down the wrath of those who don't agree.

This should be a forum for open discussion and open discussion requires each of us to stay positive.

And, even if this discussion does not lead to a piece of equipment in the short term, the ideas presented here, regardless of how unusual they may seem, may very well lead us into some new experiments and gear for the

future.

It seems that only a few years ago, QRP homebrew meant DC receivers and 2 to 3 transistor transmitters. Not to take anything away from the classic W7EL design, it seemed for a time that we would be stuck there forever. Then, suddenly, the superhet QRP rig has become the standard, thanks to a large group of folks who decided that it wasn't any harder to build crystal filters than DC receivers.

What's next? Who has the idea that will fundamentally change our QRP gear for the next century? DSP? Damn Fast Op-Amps (I love that one :-))?

I love this stuff.

72

Ed Manuel, N5EM  
n5em@aol.com

From qrp-1@lehigh.edu Sun May 21 03:39:17 1995  
Message-Id: <950520233840.2029495c@carib.vf.mmc.com>  
From: JEVERHART@cayman.vf.mmc.com  
Subject: RE: Designing Our Own  
Date: Sat, 20 May 1995 23:39:17 EDT

Ed, you wrote, in part:

> While I have no specific agenda to put forth, I am disturbed to see any  
> particular idea slammed. The idea of DSP and computer control have merit.  
> I would certainly not blame anyone who might have innovative ideas to hold back  
> for fear of drawing down the wrath of those who don't agree.  
>  
> This should be a forum for open discussion and open discussion requires each  
> of us to stay positive.  
>  
> And, even if this discussion does not lead to a piece of equipment in the  
> short term, the ideas presented here, regardless of how unusual they may  
> seem, may very well lead us into some new experiments and gear for the  
> future.  
>  
>  
> What's next? Who has the idea that will fundamentally change our QRP gear  
> for the next century? DSP? Damn Fast Op-Amps (I love that one :-))?

Ed,

I really have to agree. The discussions should be allowed to "free-wheel." As I mentioned a few days ago, this is "braind-storming," which IS a legitimate way to come up with really good ideas. In the early stages of the process there should be no negativity so that ideas can flow freely. Some will be useless, but by stifling things too much, the creative process is stifled, too. I, for one, am enjoying watching the stuff, although the critical part of my mind says a lot is not gonna last. We can all learn by letting it flow and participating.

About the Damn Fast Op-Amps... Twenty years or so ago, National Semi was on a roll, introducing new, high-performance semiconductors. One early haybrid was officially called a Fast Buffer, with some LH.... part number. When they made a faster one, it was called the Damn Fast Buffer on their data sheets and their catalogs! My boss at the time thought I was being unduly frivolous when I suggested one of them until I shoed him the catalog!

72/73,

Joe E. N2CX

From qrp-1@lehigh.edu Sun May 21 03:44:03 1995  
Message-Id: <950520234253.2029495c@carib.vf.mmc.com>  
From: JEVERHART@cayman.vf.mmc.com  
Subject: RE: Designing Our Own  
Date: Sat, 20 May 1995 23:44:03 EDT

Ed,

Boy, I just read over my last reply. If I didn't know better, I'd think that somebody was intentionally screwing up my spelling. Sorry for the typos. I really can do better than that. Gotta get a spell-checker integrated with this mail tool :-).

72/73

Joe E. N2CX

From qrp-1@lehigh.edu Sat May 20 20:41:30 1995  
Message-Id: <9505202040.AA07773@ig1.att.att.com>  
From: mvjfm@mvubr.att.com (James M Fitton 508 960 2577)

Subject: early days....

Date: Sat, 20 May 1995 16:41:30 EDT

To QRP-L

To wind "early day" threads even further:

As a kid I saw an advertisement in a Johnson & Smith novelty catalog for plans to make a catswisker crystal receiving set.

I sent away, and eventually received a cats-whisker crystal detector and plans.

I scrounged up what I thought were the parts, and twisted leads together as best as I could figure out how from the figures.

But hadn't a clue as to what an "arial" or a "ground" was.

Neither did my uncle or anyone else I asked. So, I carefully put on the earphones, attached short wires to where the arial and ground were supposed to go, and inserted them into the 110V AC outlet. There was a flash ! And every light in the house went out. My mom was furious as she changed the fuses ( again, I hadn't a clue !)

I checked my circuit and corrected an obvious (?) mistake, put the earphones back on and repeated the process. Again, a blinding flash, and the house was in total darkness.

My mom made me promise never to repeat that trick again.

How frustrating for a curious young lad. If only there had been an elmer around in those tender years.

Jim W1FMR

From qrp-l@lehigh.edu Sat May 20 22:45:42 1995

Message-Id: <950520184151\_125975709@aol.com>

From: JCoote@aol.com

Subject: Re: Half-Square Antenna

Date: Sat, 20 May 1995 18:45:42 EDT

I don't know if mine was a true half-square...but here goes:

My half-square laid on it's side. It was a concealed antenna which went around 3 sides of an apartment building. The building was 2-story. The antenna was made up of about 250' of TV ribbon, shorted at the ends to make one conductor. I fed it at the middle with.... you guessed, more TV line and a balanced tuner.

The antenna was only six to eight inches from the building's eaves, so I may



not have been the king of DX. It did work on ALL the bands of the time (we didn't have 18 and 24 Mhz yet), and was concealed so that made me happy.

72, Jay

From qrp-1@lehigh.edu Sun May 21 01:21:29 1995  
Message-Id: <199505210120.VAA11907@brahms.udel.edu>  
From: Robert Penneys <penneys@brahms.udel.edu>  
Subject: How do I stop messages?  
Date: Sat, 20 May 1995 21:21:29 EDT

I have unsubscribed to qrp-1@netcom.com and qrp-1@lehigh.edu and still the mail comes in. How do I stop it?

Tnx, Bob

Bob Penneys, WN3K Internet: penneys@brahms.udel.edu  
Frankford Radio Club N.E.R.D.S. (club call KB3BIJ for now)  
Work: Ham Radio Outlet, Delaware

From qrp-1@lehigh.edu Sat May 20 19:01:14 1995  
Message-Id: <2fbe37df.pandora@pandora.lugs.po.my>  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>  
Subject: In the beginning  
Date: Sat, 20 May 1995 15:01:14 EDT

Ahh, isn't it great to remember THOSE days. Now that this thread has started I remember the days when I was in still in Primary school. Used to take apart toy cars just to see how the motors turned, and noticed that the more batteries I used, the faster it went, which was really cool. Finally, it occurred to me that it would go really really fast if I plugged the thing into the mains (240V), and boy, was there a bang. Good thing I came out of it intact. I also remember when I started messing with transformers, used to get electrocuted some 7 times a month on the average, so my being alive now is a miracle! :-)

The magazine that got me started was one Everyday Electronics from England.

Those days they had lots of cool projects, and my very first was a relaxation oscillator wired to change its tune to the moisture on the veroboard. It used a 2N2646, a UJT (I think, it was a LONG time ago). Boy, was I happy just making it work. Of course, I had experimented with lots of AC126, AC127, AC128 and OA91's by then. Also pulled many a discarded television set into my kitchen and sending my mum up the wall. Most were filled with valves those days. I read up every encyclopaedia article on anything to do with electronics, communications etc.

I'd say that books (and magazines) made the greatest impact on my hobby development, and gave me ideas of what was possible. Also through the EE magazine, I got my ZX81, the first computer I owned. Aside from that, I used to amuse myself by taking apart appliances in the house, ranging from blenders to the hi-fi set, always timing myself so that I can reassemble it all before my parents got home. :-)

When I first learnt about soldering, I did not learn about solderers. So I used to wait till everyone was out, then put the screw driver over the stove till it got red hot and experimented with soldering. To summarize, soldering irons work a lot better than a red hot screw driver. Eventually, I began to figure out this electronics thing, and it was really really fun, though none of my friends knew what I was doing when they were playing football. I think it made me a recluse, somewhat. In anycase, my favorite soldering iron then was an ANTEX, and even today, I still use ANTEX.

Radio control models also really fascinated me. The whole concept was really cool, to be able to push a button remotely, with no wires attached, and control the model. It was incredible. Opening up the thing didn't really tell me much, other than the fact that there was this weird thing inside marked 27.125 MHz. A few coils of wires here and there. Eventually I took apart so many RC models that I stopped getting them as presents. I did however get an Air Craft band radio, a regen kit. The kit part was only the audio amplifier, which was too soft anyway. But I did spend many hundreds of hours poring over the thing and tuning around hoping to catch the air-band traffic. Gave me many thrills.

The first radio I built was a TRF affair based on the ZN414. This was incredibly easy to build, the amplifier section was a TBA810 chip I think, had a bug there which I fixed. It worked remarkably well, considering it didn't have all those IF coils, for which I had developed a phobia for by then. Again, many hours into the night were spent tuning around, I think I can still hear the heterodynes in my head. Eventually my parents bought me a transistorized AM/FM radio from Hong Kong. That was one of the best memories I have. Curiosity overtook me eventually, and even that prized radio had to be sacrificed in the name of research and landed on the operating table. That was when I found out that long wires stuck at the input of audio amplifiers could receive radio signals, all of them at once. Finally converted the FM section into an air-band radio following an article from a certain Radio Electronics magazine. It was super, though no one else could understand the grin that was perpetually on my

face. :-)

I have begun collecting lots of magazines by then, and they were my staple diet actually. By sheer luck, I managed to buy the 1986 copy of the ARRL Handbook. When I first saw it, I thought I had died and gone to heaven. Inside were the answers to almost all the questions I asked about radio and radio waves. previously I had tried experimenting with Leyden jars for my radio experiments, following the pictures from outdated encyclopaedias. But the Handbook looked like it was written for the homebrewer. I think I must've read through every last page of that book. I still have the torn and tattered 86' handbook. It was around then that me and a friend decided to carve out a PCB for a CW transmitter project found in an old Practical Wireless magazine. I think I still have the photocopies of it somewhere. Let me assure you, it was a lot of work.

When we finally put it together (we didn't know where to buy toroids so we looked for any equipment with anything that resembled the pictures and "borrowed" the part), we did an experiment. My friend whose house was some 2.5 km away from mine keyed down, and I listened on my dad's Panasonic DR-49 (a great radio that one, many good memories with that too), and I almost could not believe that I heard and decoded my first morse message. I was ecstatic.. to say the least. Hence I entered the radio world. Unfortunately, it wasn't until 8 years later that I figured out how to get a license.

Nowadays, I sometimes see a kid wandering into a parts shop, and that always reminds me of how it all started for me. That was truly a lesson in scrounging as I didn't have any money to buy anything. Improvisation was the rule of the day, but I am glad for it all. Somehow, there is always a special place in my heart for that little room at the back of the kitchen where I huddled, under the light of a 60w incandescent, feeding them mosquitoes with all the wires hanging over the top of the washer machine where I worked. The smell of the hot iron, and the solder fumes. The unforgettable smell of burning carbon film resistors (still sets off an alarm in my head nowadays), or of melting plastic. The sound of arcing electricity, sweet heterodynes and the hiss of atmospheric noise. I can only thank the big Guy upstairs for such a wonderful opportunity.

Boy! Have I rambled on....

73 de 9V1ZV Daniel

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+-----+-----+
| Daniel Wee | daniel@pandora.lugs.po.my |
| 9V1ZV      | daniel.wee@f516.n600.z6.fidonet.org |
| UUCP1.12k  | Packet: 9V1ZV @ 9V1VS.SGP.AS -- |
+-----+-----+
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From qrp-1@lehigh.edu Sun May 21 03:49:36 1995  
Message-Id: <950520234522\_126097853@aol.com>  
From: N4JEO@aol.com  
Subject: ladder line common sense  
Date: Sat, 20 May 1995 23:49:36 EDT

Couldn't resist getting in another 2 cents worth on ladder line.

It is not hard to bring into the shack.  
You do not have to have 4" to 6" inches clearance around ALL metal objects.  
It will not fill the shack with RF, unless your antenna system is unbalanced.

A basic understanding of this type of transmission line, some common sense applied, and good ol' ham ingenuity are all that are necessary to successfully use balanced line.

Basic theory: When feeding a balanced antenna, the currents on the parallel conductors are equal and opposite. The fields around each of the wires are equal, but opposite. Close to the transmission line (i.e. within 2 or 3 times the separation of the wires) the fields do not completely cancel.

Farther from the wires, the fields effectively cancel, so the line does not radiate significantly. The lines are efficient because the power is carried in the air immediately surrounding the wires, rather than being concentrated in a more lossy dielectric as in coax.

Common sense: Don't use balanced feeder for an unbalanced antenna. It will not work as balanced transmission line, and it will be part of your radiating system. Don't mess up the fields close to the wires, but don't be fanatical about it. For example, routing the transmission line closely parallel to an aluminum downspout wouldn't be bright, especially if one side of the line were closer over the whole run. The risk would be power lost to the downspout and unbalance on the transmission line.

More common sense: Suppose you're feeding a 130' dipole with 450 ohm ladder line with a balun and tuner at the other end. This antenna is not resonant, and you are not dependent on the transmission line to do anything but get the power to the radiator with a minimum loss in spite of a high SWR. That is why the line can be 300 ohm, 450 ohm, or just two wires separated at intervals by spacers made out of plastic milk bottles. A few impedance bumps in this line will not matter. If you have to pass the line near your aluminum storm window frame, that is a minor perturbation. The window is unlikely to be resonant at any ham frequency and will not steal significant power. Small metal objects like nails or other hardware deserve only modest respect. Remember that the balun and tuner are probably going to be your worst sources of loss unless you get real sloppy.

Still more common sense: Even a short run in proximity to some cables or

items in the shack could cause a problem with RFI, so put the tuner near the point of entry or segregate the ladder line from your other cables and equipment. If you can't do this, put the balun at the point of entry and use a short run of coax. Remember a balun and tuner will contribute significant loss, so don't be penny-wise and pound-foolish. A short run of coax won't waste too much power. (Aside: Feeding a balanced antenna system with coax and then bringing that coax into the shack poses a worse threat of RF,I than properly used ladder line, due to currents on the outside of the braid.)

Ham ingenuity: That's up to you. Kick back and dream up an installation.

My opinion is that good coax is heavy and has a large crossection. Ladder line is easier to get in through a window while maintaining a weather tight seal.

Robert  
N4JEO

From qrp-1@lehigh.edu Sat May 20 14:40:04 1995  
Message-Id: <01HQQ0Z8JM9E8WZT06@nova.wright.edu>  
From: NYOUNG@nova.wright.edu  
Subject: Missing moments  
Date: Sat, 20 May 1995 10:40:04 EDT

I was just rummaging around in the attic for the remains of a burned out 2m antenna doodad that I thought was up there when I came across a copy of Ham Radio magazine dated November 1974. My eldest boy was still gestating then. We lived in a rental house outside of nowhere, one of those places where at least three neighbors have cars up on blocks in the back or side yard and all the newspaper girls chew tobacco and spit at least a yard in front of their minimalistically clothed snarls. The shack was an unused bedroom, cluttered with junk and a HW101. I still had the Argonaut but I never used it. Don't ask why.

So here's this issue of HR laying in a box full of other deteriorata, looking like a well designed and constant content ham radio mag used to look. I'd forgotten just how much that magazine had meant to my own ham radio experience. I think I subscribed in the first or second year of its existence. But this issue, this issue has a "low-power single-band cw transceiver." The graphics on the cover uses circles, ovals, triangles and dots to form the outline or suggestion of a CW key (remember those?). There's also an article on "artificial aurora" (which brings back Latin American memories), an article on "predicting harmonics" (with my mother some 5 months

earlier having predicted the one that would soon join Cindy and myself in the circle of unpredictable life), and one on solar power. The price at the top of the cover is 85 cents. (And, no, I do not remember that... I do remember getting three years subs for the price of one.)

So the qrp-1 content? Simple. The radio design inside is part of an article by Wes Hayward, W7ZOI. The receiver is all active components (40673 dual gate fed preamp/front end. ditto the mixer, optional cascaded IF filters [9-MHz KVG doodads] and the rest. Lots of space in the box, something that I relish now... and over which I had a very nice discussion at the QRP suite at Dayton. It's one of those projects that I used to drool over. I didn't have the free cash at the time to invest in trying the design out, but I had enough sense to know that I'd have tried it if I did. And one of the references at the bottom of the article (I appreciate very much now the way HR magazine used to publish what I call "academic style" articles complete with references and source citations... rare case in a hobby and something that I think is a must in a technical publication, even if oriented toward hobby readers) was a previous article from QST (also by Hayward) called "The Mountaineer."

Back then, you may remember, a mountaineer radio was a fairly complex box that required at least two other complex boxes, each of which weighed enough to require a helo-drop at the camp site. Nowadays (he said in his increasingly more grandfatherly voice... and no, Ian is not getting married) a mountaineer radio is just as likely to be a much smaller, yet no less complicated, box like the NorCal 40 or the S&S ARK-4 or -40. Times indeed have changed. But we're just as loony as I remember us all being back in 1972.

Was that the good old days, or what?

73  
Nils  
WB8IJN &c

From qrp-1@lehigh.edu Sat May 20 15:05:50 1995  
Message-Id: <2a6.24857.500@acenet.com>  
From: brian.carling@acenet.com (Brian Carling)  
Subject: Re: NEW SERVER for QRP-L  
Date: Sat, 20 May 1995 11:05:50 EDT

From: brian.carling@acenet.com

MEM>2.3214B-100000@usr3.primenet.com>

MEM>Chuck...

MEM>Do I understand it correctly that we all need to unsubscribe to  
MEM>qrp-1@netcom.com and then subscribe to the new one? That is, the  
MEM>folks currently on the list will not be magically transferred to the  
e  
MEM>new one?

MEM>Mark      AA7TA

Mark & Chuck - these are GREAT stories. I can't top them.  
However, at the age of about 10 or 12, I was into homebrew intercoms,  
and often needed some lighting flex, two-wire cable to run around the  
place. One day I was sitting on the living room floor with my wire  
cutters, and decided to cut a nice piece of wire that I found laying on  
the floor. This was in England where house current runs 240 Volts AC!  
Kapowee! As my cutters cut into the wire, a loud bang ensued with a  
flash, and the cutters were instantly welded together as the fuse blew!  
73, Brian, AF4K in Gaithersburg, MD

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=FE SLMR 2.1a =FE "Honey, let's pit the NRA against the POLICE, he he =  
he!"

From qrp-1@lehigh.edu Sat May 20 19:30:35 1995  
Message-Id: <9505201929.AA00450@kahuna.math.hawaii.edu>  
From: jeffrey@math.hawaii.edu (Jeffrey Herman)  
Subject: Reply warning  
Date: Sat, 20 May 1995 15:30:35 EDT

Gang,  
I just tried to reply to Daniel in Singapore regarding his  
TransPacific QRP QSO but the reply went to the entire net.  
Over on the netcom machine that reply would have \*only\* gone to  
him, not to the list. So be warned that your direct replies  
might be broadcast to the entire group. |-(

Jeff NH6IL

From qrp-1@lehigh.edu Sat May 20 21:04:20 1995  
Message-Id: <95052017000639766@chowda.com>  
From: bob.berlyn@chowda.com (Bob Berlyn)  
Subject: Scope -Plug In- INFO  
Date: Sat, 20 May 1995 17:04:20 EDT

Good Afternoon all,

Oh Boy !! Our new home looks as if it is going to be great. Thanks to everyone involved in setting it up.

I just got home from the "76 Auction", a local auction and flea market to support one of our local repeater groups.

OK I know that strictly speaking the following is not directly QRP but I hope it will be a help to me building my QRP projects. So here goes.

I bought a Tektronics Type 1L10 spectrum Analyzer plug-in unit for my 545A scope. The guy SAYS it works. :-/ . I'll find out. It seems to be in good shape appearance wise. Even if it doesn't work, if I can fix it, or get it fixed, for not too much money, I still got a good deal, I think. If not, than I guess I will have learned a valuable lesson.

In any case I need the documentation for it. Does any one have any ? Or is Tektronics still at PO BOX 500 in Beaverton, OR. ? If not does any one have a current address and/or phone number for them.

Thanks  
Bob

---

\* CMPQwk 1.4 #2032 \* Bob Berlyn N1PWU

Bob.Berlyn@Chowda.Com

From qrp-1@lehigh.edu Sat May 20 11:02:28 1995  
Message-Id: <Pine.3.89.9505200606.A543444056-0100000@utkvx.utk.edu>  
From: cebik@UTKVX.UTCC.UTK.EDU  
Subject: Re: Small Tuner Question  
Date: Sat, 20 May 1995 07:02:28 EDT

On Fri, 19 May 1995 NYOUNG@nova.wright.edu wrote:

> So I guess I'm saying that it ain't that big a deal to isolate  
> those caps from ground. Plexiglass, my man. Plexiglass. It's the



> way of the future. Invest in plastic.

A source of heavy plastic with apparent good RF capabilities at HF is one of those older style desk-chair-carpet-protector "pads" that used to be stiff and would eventually crack. (The new ones are made of a soft plastic and are not apt for tuner component use.) If you find a broken one, capture it for the shop. Use a saber saw to cut it, using the fewest teeth per inch and go very slowly. Even then, you may have to run the saw line several times to clear the heat-gummed plastic that wants to reseal the cut. Once cut, a belt or disc bench sander can smooth the edges and finish the shape very well. Granted, plexiglass cuts more like wood, but this floor acrylic is very handy.

For small pieces, you can find acrylic cutting boards about 3/16" thick in various sizes in the kitchen housewares section of K/Walmart-type stores.

Besides antenna tuner bases, I have used them for antenna insulators. Most are rough on one side and thus not good for transparent cases. But it is handy stuff.

-73-

LB, W4RNL

From owner-qrp-l@netcom.com Sat May 20 13:09:41 1995  
Date: Sat, 20 May 1995 06:09:41 -0700 (PDT)  
From: Steven Wilson <randyw@crl.com>  
Subject: Re: Small Tuner Question  
Message-Id: <Pine.SUN.3.91.950520060915.20019A-100000@crl4.crl.com>

do you tune for maximin or minimun current in the ground system ?

From qrp-l@lehigh.edu Sat May 20 12:06:04 1995  
Message-Id: <01HQPW6YT0QQ91XQTJ@MAILSRV1.PCY.MCI.NET>  
From: Bob Smith <rsmith@internetmci.com>  
Subject: SUBSCRIBE QRP-L Bob Smith N3FTU  
Date: Sat, 20 May 1995 08:06:04 EDT

-- [ From: Bob Smith \* EMC.Ver #b.2.5.02 ] --

SUBSCRIBE QRP-L Bob Smith N3FTU

From qrp-l@lehigh.edu Sat May 20 13:33:27 1995  
Message-Id: <1995May20.093143.17860@wb3ffv.ampr.org>  
From: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org (Mike Czuhajewski)  
Subject: Re: SUBSCRIBE QRP-L Bob Smith N3FTU  
Date: Sat, 20 May 1995 09:33:27 EDT

Awright! Looks like you have the honor of being the very first person on the new server to send a subscribe/unsubscribe/whatever message to the list instead of listserv@XXXXX :-)) :-)) Try it again, but address it to listserv@lehigh.edu, and works much better :-))

One thing about this new system, which I haven't tried yet, is the RECIPIENTS command--the welcome message I just received says you can send mail to listserv@lehigh.edu and in the text say RECIPIENTS QRP-L and it will return a list of names AND e-mail addresses! You always could get some of that info from the old servers, but all of it being available is priceless!

Interested in another QRP Show and Tell at MRC? It's been a while, and maybe time to start thinking of having another one. 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ wb3ffv.ampr.org  
E-Mail: Mike.Czuhajewski@hambbs.wb3ffv.ampr.org  
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA  
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From owner-qrp-l@netcom.com Sat May 20 17:58:16 1995  
From: adam@philadelphia.libertynet.org (Adam O'Donnell)  
Message-Id: <9505201758.AA10380@philadelphia.libertynet.org>  
Subject: Suppliers of RF parts?  
Date: Sat, 20 May 1995 13:58:16 -0400 (EDT)

Where do you get your RF IC's, namely the (uggg...) NE602?  
Who manufactures them?  
Thanks and 73

--

Adam O'Donnell, N3RCS  
Internet: adam@libertynet.org

My parents tell me that I just take up time and space. It's true -  
I'm into relativity theory.

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